

~~ABSTRACT~~

The present invention provides an organic semiconductor device, which can be produced uniformly on a large substrate, having a high mobility and  
5 capable of greatly modulating the drain current by varying the voltage applied to a gate electrode. The present invention provides an organic semiconductor device having at least a substrate, an organic semiconductor, a gate insulating film and conductors,  
10 and having electrodes for applying bias, wherein a polymer layer, which is different from the gate insulating film, is provided in contact with the organic semiconductor, and the polymer layer is formed of a copolymer of methyl methacrylate and  
15 divinylbenzene, or the like; a process for producing the organic semiconductor device; and an organic semiconductor apparatus using the organic semiconductor device.